Split failure during watershed discretization

Posted by swyman - 2008/07/25 19:58

I am discretizing a watershed with topography modified by human development. Discretization using the default thresholds was too coarse, so I am trying to refine the threshold parameters to give better discretization. However, AGWA gives the error: "Failure to parameterize. Split failure 804". The number changes depending on the threshold parameters I enter, so it is possibly referring to the watershed plane. Part of my basin is fairly flat.

My question is: Is there a relationship between threshold parameters for stream and watershed contributing areas that should be considered for the best parameterization? Since the default 2.5% contributing area threshold was too coarse for my simulation, what is the best approach to refining the discretization (short of trial and error)?

Thanks!

Susan

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Re:Split failure during watershed discretization

Posted by lainie - 2008/07/26 01:02

Modeling flat urbanized watersheds can be a problem. Many DEMs are not hydrologically correct for these areas. Have you tried using the NHD-Plus DEM data? Also, you may need to fill the DEM to make it work.

There really is no rule of thumb for setting the CSA other than trial and error (Sorry!), but the 2.5% default value was based on a KINEROS watershed of

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